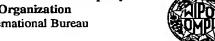


## (19) World Intellectual Property Organization International Bureau





# 

### (43) International Publication Date 14 July 2005 (14.07.2005)

(51) International Patent Classification7:

### PCT

A61K 31/343,

PCT/KR2004/003546

# (10) International Publication Number WO 2005/063232 A1

21 May 2004 (21.05.2004)

KR

35/78, A61P 3/04	10-2004-0050200	30 June 2004 (30.06.2004)	KR
(21) International Application Number:	(71) Applicant (for all de	esignated States except US):	MD

(22) International Filing Date:

30 December 2004 (30.12.2004)

Korean (25) Filing Language:

**English** (26) Publication Language:

(30) Priority Data:

10-2003-0099658 30 December 2003 (30.12.2003) KR 10-2003-0099657

30 December 2003 (30.12.2003) KR 10-2003-0099556

30 December 2003 (30.12.2003)

10-2003-0099557

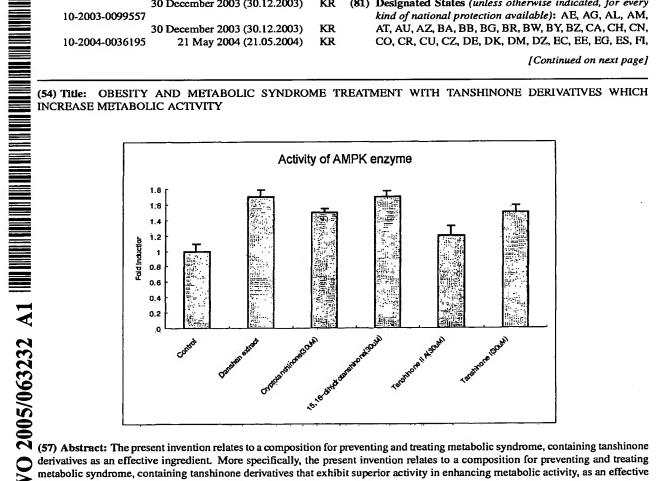
BIOALPHA CO., LTD. [KR/KR]; #1713, Honor's Ville, 1380-1, Dunsan-dong, Seo-gu, Daejeon 302-120 (KR).

(72) Inventors; and

10-2004-0036197

- Inventors/Applicants (for US only): KWAK, Taehwan [KR/KR]; 103-503, Seogeunaemaeul SK Apt., Seocheon-ri, Giheung-eup, Yongin-si, Gyeonggi-do 449-906 (KR). PARK, Myunggyu [KR/KR]; 107-302, Seogeunaemaeul SK Apt., Seocheon-ri, Giheung-eup, Yongin-si, Gyeonggi-do 449-906 (KR).
- (74) Agent: SOHN, Chang Kyu; 1403, Seongji Heights 2-cha Bldg., 642-16, Yoksam 1-dong, Kangnam-gu, Seoul 135-910 (KR).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

KR



derivatives as an effective ingredient. More specifically, the present invention relates to a composition for preventing and treating metabolic syndrome, containing tanshinone derivatives that exhibit superior activity in enhancing metabolic activity, as an effective ingredient.



#### 

GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.